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(21) International Application Number: PCT/SE96/01119 (22) International Filing Date: 6 September 1996 (06.09.96) (30) Priority Data: 9503117-5 8 September 1995 (08.09.95) SE (71)(72) Applicant and Inventor: LANDEGREN, Ulf [SE/SE]; Eksoppsvägen 16, S-756 46 Uppsala (SE). (74) Agents: ALDENBÄCK, Ulla et al.; Dr. Ludwig Brann Patentbyrå AB, P.O. Box 1344, S-751 43 Uppsala (SE).	(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>With amended claims.</i>	
(54) Title: METHODS AND COMPOSITIONS FOR NUCLEIC ACID TARGETING-- (57) Abstract <p>The present invention relates to methods and compositions for targeting nucleic acid sequences, more specifically double stranded nucleic acid sequences. The compositions comprise oligonucleotides in the form of padlock probes. The padlock probes have two free nucleic acid end parts which are at least partially complementary to and capable of hybridizing with two at least substantially neighboring respective regions of a target nucleic acid sequence. Furthermore, the invention relates to use of said compositions as medicaments for treating genetic disorders.</p>		